

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLACEMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'PHB1V'

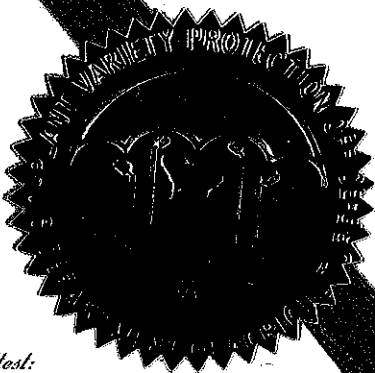
In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this third day of November, in the year two thousand and six.

Attest:

Alm Zeller

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

W. L. Johnson
Secretary of Agriculture




U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

| | | | |
|---|--|--|--|
| 1. NAME OF OWNER Pioneer Hi-Bred International, Inc. | | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME | 3. VARIETY NAME PHB1V |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 7301 NW 62nd Avenue Johnston, IA 50131-0085 | | 5. TELEPHONE (include area code) 515/270-4051 | FOR OFFICIAL USE ONLY PVPO NUMBER 2004 00 201 |
| | | 6. FAX (include area code) 515/253-2125 | |
| 7. IF THE OWNER NAMED IS NOT A "PERSON". GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation | 8. IF INCORPORATED, GIVE STATE OF INCORPORATION IOWA | 9. DATE OF INCORPORATION March 5, 1999 | |
| 10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Steven R. Anderson Research and Product Development P.O. Box 85 Johnston, IA 50131-0085 | | FILING AND EXAMINATION FEES: \$ 3652.00 DATE 5/4/04 CERTIFICATION FEE: \$ 768.00 DATE 9/29/06 | |
| 11. TELEPHONE (Include area code) 515/270-4051 | 12. FAX (Include area code) 515/253-2125 | 13. E-MAIL steven.anderson@pioneer.com | |
| 14. CROP KIND (Common Name) CORN | 16. FAMILY NAME (Botanical) Gramineae | 18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION. | |
| 15. GENUS AND SPECIES NAME OF CROP Zea Mays | 17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | 20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23) | |
| 19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) | | 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED | |
| 23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) | | 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.) | |
| 25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. | | 24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.) | |
| SIGNATURE OF OWNER | | SIGNATURE OF OWNER  | |
| NAME (Please print or type) | | NAME (Please print or type) Steven R. Anderson | |
| CAPACITY OR TITLE | DATE | CAPACITY OR TITLE | DATE |
| | | Research Scientist | 5/3/2004 |

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682
<http://www.ams.usda.gov/lsg/seed.htm>.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

United States, Nov. 1, 2003

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History

Pedigree: PH2N1/PH226)XW6K21K211X

Pioneer Line PHB1V, *Zea mays* L., a yellow endosperm flint corn inbred with some dent characteristics, was developed by Pioneer Hi-Bred International, Inc. from the single cross hybrid PH2N1 X PH226 (PVP Certificate No. 9900383) using the pedigree method of plant breeding. Varieties PH2N1 and PH226 are proprietary inbred lines of Pioneer Hi-Bred International, Inc. Variety PH2N1 was derived by pedigree selection from the single cross hybrid PHGG6 X PHBE2 (Certificate No. 9500200). Variety PHGG6 was derived by pedigree selection from the single cross hybrid PHP02 (PVP Certificate No. 8800212) X PHR03 (PVP Certificate No. 9100097). Selfing was practiced from the above hybrid (PH2N1 X PH226) for 8 generations using pedigree selection. During line development, crosses were made to inbred testers for the purpose of estimating the line's combining ability. Yield trials were grown at Windfall, Indiana as well as other Pioneer research locations. After initial testing, additional hybrid combinations have been evaluated and subsequent generations of the line have been grown and hand-pollinated with observations again made for uniformity.

Variety PHB1V has shown uniformity and stability for all traits as described in Exhibit C - "Objective Description of Variety". It has been self-pollinated and ear-rowed 6 generations with careful attention paid to selection criteria and uniformity of plant type to assure genetic homozygosity and phenotypic stability. The line has been increased both by hand and in isolated fields with continued observations for uniformity and stability, and for 3 generations during the final stages of inbred development and seed multiplication. Very high standards for genetic purity have been established morphologically using field observations and electrophoretically using sound lab molecular marker methodology.

No variant traits have been observed or are expected in PHB1V.

The criteria used in the selection of PHB1V were yield, both per se and in hybrid combinations; late season plant health, grain quality, stalk lodging resistance, and kernel size, especially important in production. Other selection criteria include: ability to germinate in adverse conditions; disease and insect resistance; pollen yield and tassel size.

Exhibit A: Developmental history for PHB1V

| Season/Year Pedigree Grown | Inbreeding Level of Pedigree Grown |
|---------------------------------------|---------------------------------------|
| PH2N1 Summer 1996 | F0 |
| PH226 Summer 1996 | F0 |
| PH2N1/PH226 Winter 1996 | F1 |
| PH2N1/PH226)X Summer 1997 | F2 |
| PH2N1/PH226)XW6 Winter 1998 | F3 |
| PH2N1/PH226)XW6K2 Summer 1999 | F4 |
| PH2N1/PH226)XW6K21 Winter 1999 | F5 |
| PH2N1/PH226)XW6K21K2 Summer 2000 | F6 |
| PH2N1/PH226)XW6K21K21 Winter 2000 | F7 |
| PH2N1/PH226)XW6K21K211 Summer 2001 | F8 |
| PH2N1/PH226)XW6K21K211X | F9 SEED |

*PHB1V was selfed and ear-rowed from F3 through F8 generation.

#Uniformity and stability were established from F7 through F9 generation and beyond when seed supplies were increased.

Exhibit B: Novelty Statement

Variety PHB1V mostly resembles Pioneer Hi-Bred International, Inc. proprietary inbred line PH226 (PVP Certificate No. 9900383). Tables 1A and 1B show two sample t-tests on data collected primarily in Johnston and Dallas Center, IA. The traits collectively show measurable differences between the two varieties.

Exhibit B: Novelty Statement

Variety PHB1V has a greater cob diameter (27.9 mm vs 25.8 mm) than variety PH226 (Table 1A, 1B).

Variety PHB1V has a greater ear diameter (44.4 mm vs 38.4 mm) than variety PH226 (Table 1A, 1B).

Variety PHB1V has a shorter husk length (21.9 cm vs 26.1 cm) than variety PH226 (Table 1A, 1B).

Variety PHB1V has a greater kernel length (10.9 mm vs 9.0 mm) than variety PH226 (Table 1A, 1B).

Variety PHB1V has a small leaf angle (13.2 degrees vs 20.9 degrees) than variety PH226 (Table 1A, 1B).

Exhibit B: Novelty Statement Tables

Table 1A: Data from Johnston and Dallas Center, IA broken out by year and across environments are supporting evidence for differences between PHB1V and PH226. Each year varieties were grown in 3 locations that had different environmental conditions. Environments had different planting dates and were in different fields. A two-sample t-test was used to compare differences between means.

| DataField | YEAR | VARIETY | VARIETY | Count | Count | Mean | Mean | Mean | StdDeviation | StdDeviation | StdError | StdError | DF_Pooled | t | Prob_(2-tail)_Pooled |
|----------------------|------|---------|---------|-------|-------|------|------|------|--------------|--------------|----------|----------|-----------|------|----------------------|
| | | 1 | 2 | 1 | 2 | 1 | 2 | Diff | 1 | 2 | 1 | 2 | | | |
| cob diameter (mm) | 2002 | PHB1V | PH226 | 15 | 15 | 27.6 | 25.9 | 1.7 | 1.242 | 1.060 | 0.321 | 0.274 | 28 | 4.1 | 0.000 |
| cob diameter (mm) | 2003 | PHB1V | PH226 | 15 | 15 | 28.2 | 25.7 | 2.5 | 1.568 | 1.668 | 0.405 | 0.431 | 28 | 4.2 | 0.000 |
| ear diameter (mm) | 2002 | PHB1V | PH226 | 15 | 15 | 44.3 | 36.6 | 7.7 | 2.820 | 2.324 | 0.728 | 0.600 | 28 | 8.2 | 0.000 |
| ear diameter (mm) | 2003 | PHB1V | PH226 | 15 | 15 | 44.5 | 40.2 | 4.3 | 2.446 | 1.521 | 0.631 | 0.393 | 28 | 5.8 | 0.000 |
| husk length (cm) | 2002 | PHB1V | PH226 | 15 | 15 | 21.6 | 25.2 | -3.6 | 0.828 | 2.305 | 0.214 | 0.595 | 28 | -5.7 | 0.000 |
| husk length (cm) | 2003 | PHB1V | PH226 | 15 | 15 | 22.3 | 26.9 | -4.7 | 1.438 | 1.624 | 0.371 | 0.419 | 28 | -8.3 | 0.000 |
| kernel length (mm) | 2002 | PHB1V | PH226 | 15 | 15 | 11.0 | 8.8 | 2.2 | 0.756 | 0.676 | 0.195 | 0.175 | 28 | 8.4 | 0.000 |
| kernel length (mm) | 2003 | PHB1V | PH226 | 15 | 15 | 10.9 | 9.2 | 1.7 | 1.060 | 0.775 | 0.274 | 0.200 | 28 | 4.9 | 0.000 |
| leaf angle (degrees) | 2002 | PHB1V | PH226 | 15 | 15 | 13.7 | 21.7 | -8.0 | 4.761 | 5.653 | 1.229 | 1.460 | 28 | -4.2 | 0.000 |
| leaf angle (degrees) | 2003 | PHB1V | PH226 | 15 | 15 | 12.7 | 20.1 | -7.4 | 4.435 | 5.378 | 1.145 | 1.389 | 28 | -4.1 | 0.000 |

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Exhibit B. Novelty Statement Tables

Table 1B: Summary data from Johnston and Dallas Center, IA across years and environments are supporting evidence for differences between PHB1V and PH226. Environments had different planting dates and were in different fields. A two-sample t-test was used to compare differences between means.

| DataField | VARIETY-1 | VARIETY-2 | Count-1 | Count-2 | Mean-1 | Mean-2 | Mean_Diff | StdDeviation-1 | StdDeviation-2 | StdError-1 | StdError-2 | DF_Pooled | t-Value_Pooled | Prob_(2-tail)_Pooled |
|----------------------|-----------|-----------|---------|---------|--------|--------|-----------|----------------|----------------|------------|------------|-----------|----------------|----------------------|
| cob diameter (mm) | PHB1V | PH226 | 30 | 30 | 27.9 | 25.8 | 2.1 | 1.423 | 1.375 | 0.260 | 0.251 | 58 | 5.8 | 0.000 |
| ear diameter (mm) | PHB1V | PH226 | 30 | 30 | 44.4 | 38.4 | 6.0 | 2.596 | 2.660 | 0.474 | 0.486 | 58 | 8.9 | 0.000 |
| husk length (cm) | PHB1V | PH226 | 30 | 30 | 21.9 | 26.1 | -4.1 | 1.202 | 2.149 | 0.219 | 0.392 | 58 | -9.2 | 0.000 |
| kernel length (mm) | PHB1V | PH226 | 30 | 30 | 10.9 | 9.0 | 1.9 | 0.907 | 0.743 | 0.166 | 0.136 | 58 | 9.0 | 0.000 |
| leaf angle (degrees) | PHB1V | PH226 | 30 | 30 | 13.2 | 20.9 | -7.7 | 4.549 | 5.482 | 0.831 | 1.001 | 58 | -5.9 | 0.000 |

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United States Department of Agriculture, Agricultural Marketing Service
Science and Technology, Plant Variety Protection Office
National Agricultural Library Building, Room 400
Beltsville, MD 20705-2351

OBJECTIVE DESCRIPTION OF VARIETY
CORN (Zea mays L.)

| | | |
|--|-------------------------|---|
| Name of Applicant(s) Pioneer Hi-Bred International, Inc | Variety Seed Source | Variety Name or Temporary Designation PHB1V |
| Address (Street & No., or R.F.D. No., City, State, Zip Code and Country) 7301 NW 62nd Avenue, P.O. Box 85, Johnston, Iowa 50131-0085 | FOR OFFICIAL USE | PVPO Number 200400201 |

Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description. Traits designated by a "*" are considered necessary for an adequate variety description and must be completed.

COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices; describe #25 and #26 in Comments section):

| | | | | | |
|---------------------|-------------------|-----------------|------------------|---------------------------|----------------------|
| 01. Light Green | 06. Pale Yellow | 11. Pink | 16. Pale Purple | 21. Buff | 26. Other (Describe) |
| 02. Medium Green | 07. Yellow | 12. Light Red | 17. Purple | 22. Tan | |
| 03. Dark Green | 08. Yellow-Orange | 13. Cherry Red | 18. Colorless | 23. Brown | |
| 04. Very Dark Green | 09. Salmon | 14. Red | 19. White | 24. Bronze | |
| 05. Green-Yellow | 10. Pink-Orange | 15. Red & White | 20. White Capped | 25. Variegated (Describe) | |

STANDARD INBRED CHOICES [Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial data]:

| | | | |
|-----------------------|-------------------------|--------------------------|-----------------------------|
| Yellow Dent Families: | | Yellow Dent (Unrelated): | Sweet Corn: |
| Family | Members | Co109, ND246 | C13, Iowa5125, P39, 2132 |
| B14 | CM105, A632, B64, B68 | Oh7, T232 | |
| B37 | B37, B76, H84 | W117, W153R | Popcorn: |
| B73 | N192, A679, B73, Nc268 | W182BN | SG1533, 4722, HP301, HP7211 |
| C103 | Mo17, Va102, Va35, A682 | | |
| Oh43 | A619, MS71, H99, Va26 | White Dent: | Pipecorn: |
| WF9 | W64A, A554, A654, Pa91 | Cl66, H105, Ky228 | Mo15W, Mo16W, Mo24W |

| | | |
|--|------------------------------------|-------------|
| 1. TYPE: (describe intermediate types in "Comments" section) 3 (1=Sweet, 2=Dent, 3=Flint, 4=Flour, 5=Pop, 6=Ornamental, 7=Pipecorn) | Standard Inbred Name VA26 | 2 Type |
| 2. REGION WHERE DEVELOPED IN THE U.S.A.: 3 (1=N.West, 2=N.Central, 3=N.East, 4=S.East, 5=S.Central, 6=S.West, 7=Other) | Standard Seed Source AMES 19329 | Region |
| 3. MATURITY (In Region Best Adaptability; show Heat Unit formula in "Comments" section): | DAYS | HEAT UNITS |
| DAYS HEAT UNITS | | |
| 67 1.534.5 From emergence to 50% of plants in silk | 62 | 1.397.5 |
| 67 1.522.8 From emergence to 50% of plants in pollen | 61 | 1.389.7 |
| 2 53 From 10% to 90% pollen shed | 2 | 63 |
| From 50% silk to optimum edible quality | | |
| From 50% silk to harvest at 25% moisture | | |
| 4. PLANT: | St.Dev. | Sample Size |
| 244.3 cm Plant Height (to tassel tip) | 14.12 | 20 |
| 108.7 cm Ear Height (to base of top ear node) | 10.68 | 20 |
| 17.6 cm Length of Top Ear Internode | 2.26 | 20 |
| 0.0 Average Number of Tillers | 0.02 | 10 |
| 1.0 Average Number of Ears per Stalk | 0.09 | 10 |
| 3 Anthocyanin of Brace Roots: 1=Absent, 2=Faint, 3=Moderate, 4=Dark | | 1 |

| 5. LEAF | | | St.Dev. | Sample Size | Mean | St.Dev. | Sample Size |
|---|--|------------|----------|-------------|-------|----------------|-------------|
| 9.0 | cm Width of Ear Node Leaf | | 1.00 | 20 | 9.2 | 0.77 | 20 |
| 82.5 | cm Length of Ear Node Leaf | | 3.05 | 20 | 76.9 | 3.88 | 20 |
| 6.5 | Number of leaves above top ear | | 0.51 | 20 | 6.3 | 0.73 | 20 |
| 14.4 | Degrees Leaf Angle | | 4.57 | 20 | 25.5 | 5.03 | 20 |
| (Measure from 2nd leaf above ear at anthesis to stalk above leaf) | | | | | | | |
| 4 | Leaf Color (Munsell Code) | 7.5GY 3/4 | | | 4 | (Munsell Code) | 5GY 3/4 |
| 3 | Leaf Sheath Pubescence (Rate on scale from 1=none to 9=like peach fuzz) | | | | 4 | | |
| | Marginal Waves (Rate on scale from 1=none to 9=many) | | | | | | |
| | Longitudinal Creases (Rate on scale from 1=none to 9=many) | | | | | | |
| 6. TASSEL: | | | St.Dev. | Sample Size | Mean | St.Dev. | Sample Size |
| 6.3 | Number of Primary Lateral Branches | | 1.12 | 20 | 18.7 | 3.39 | 20 |
| 14.3 | Degrees Branch Angle from Central Spike | | 4.92 | 20 | 37.3 | 6.49 | 20 |
| 54.1 | cm tassel Length | | 5.16 | 20 | 61.2 | 3.52 | 20 |
| (from top leaf collar to tassel tip) | | | | | | | |
| 5 | Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed) | | | | 8 | | |
| 1 | Anther Color (Munsell Code) | 10Y 8/8 | | | 1 | (Munsell Code) | 10Y 8/8 |
| 2 | Glume Color (Munsell Code) | 5GY 7/8 | | | 2 | (Munsell Code) | 5GY 5/8 |
| 1 | Bar Glumes (Glume Bands): 1=Absent, 2=Present | | | | 1 | | |
| 7a. EAR (Unhusked Data): | | | | | | | |
| 6 | Silk Color (3 days after emergence) (Munsell Code) | 7.5Y 8.5/6 | | | 1 | Munsell Code | 2.5GY 8/6 |
| 2 | Fresh Husk Color (25 days after 50% silking) (Munsell Code) | 5GY 6/8 | | | 2 | Munsell Code | 5GY 5/6 |
| 19 | Dry Husk Color (65 days after 50% silking) (Munsell Code) | 5Y 9/2 | | | 19 | Munsell Code | 2.5Y 8.5/2 |
| 2 | Position of Ear at Dry Husk Stage: 1=Upright, 2=Horizontal, 3=Pendent | | | | 3 | | |
| 5 | Husk Tightness (Rate on scale from 1=very loose to 9=very tight) | | | | 6 | | |
| 2 | Husk Extension (at harvest): 1=Short(ears exposed), 2=Medium (<8cm), 3=Long (8-10cm beyond ear tip), 4=Very Long (>10cm) | | | | 3 | | |
| 7b. EAR (Husked Ear Data) | | | St. Dev. | Sample Size | Mean | St.Dev. | Sample Size |
| 14.7 | cm Ear Length | | 2.43 | 20 | 14.1 | 2.10 | 20 |
| 44.2 | mm Ear Diameter at mid-point | | 2.50 | 20 | 41.7 | 2.85 | 20 |
| 130.8 | gm Ear Weight | | 39.30 | 20 | 102.0 | 34.38 | 20 |
| 15.7 | Number of Kernel Rows | | 1.63 | 20 | 15.5 | 1.10 | 20 |
| 2 | Kernel Rows: 1=Indistinct, 2=Distinct | | | | 2 | | |
| 1 | Row Alignment: 1=Straight, 2=Slightly Curved, 3=Spiral | | | | 2 | | |
| 10.6 | cm Shank Length | | 2.37 | 20 | 11.4 | 2.35 | 20 |
| 2 | Ear Taper: 1=Slight cyl., 2=Average slightly con., 3=Extreme conical | | | | 2 | | |
| 8. KERNEL (Dried): | | | St.Dev. | Sample Size | Mean | St.Dev. | Sample Size |
| 10.9 | mm Kernel Length | | 0.72 | 20 | 11.0 | 1.15 | 20 |
| 7.9 | mm Kernel Width | | 0.64 | 20 | 8.1 | 0.79 | 20 |
| 5.0 | mm Kernel Thickness | | 0.60 | 20 | 4.3 | 0.44 | 20 |
| 52.7 | % Round Kernels (Shape Grade) | | 18.52 | 11 | 22.3 | 9.51 | 11 |
| 1 | Aleurone Color Pattern: 1=Homozygous, 2=Segregating (describe) | | | | 1 | (describe) | |
| 7 | Aleurone Color (Munsell Code) | 1.25Y 7/14 | | | 7 | Munsell Code | 2.5Y 8/14 |
| 7 | Hard Endosperm Color (Munsell Code) | 10YR 6/12 | | | 7 | Munsell Code | 2.5Y 8/14 |
| 3 | Endosperm Type: 1=Sweet(su1), 2=Extra Sweet(sh2), 3=Normal Starch, 4=High Amylose Starch, 5=Waxy Starch, 6=High Protein, 7=High Lysine, 8=Super Sweet (se), 9=High Oil, 10=Other | | | | 3 | (describe) | |
| 31.2 | gm Weight per 100 kernels (unsized sample) | | 4.73 | 11 | 26.1 | 4.99 | 11 |
| 9. COB: | | | St.Dev. | Sample Size | Mean | St.Dev. | Sample Size |
| 27.8 | mm Cob Diameter at mid-point | | 1.25 | 20 | 25.5 | 1.47 | 20 |
| 10 | Cob Color (Munsell Code) | 2.5YR 4/8 | | | 19 | Munsell Code | 2.5Y 9/2 |

10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank

if not tested; leave Race or Strain Options blank if polygenic):

A. Leaf Blights, Wilts, and Local Infection Diseases

☐ Anthracnose Leaf Blight (*Colletotrichum graminicola*)4 Common Rust (*Puccinia sorghi*)☐ Common Smut (*Ustilago maydis*)Eyespot (*Kabatiella zeae*)Goss's Wilt (*Clavibacter michiganense* spp. *nebraskensis*)7 Gray Leaf Spot (*Cercospora zeae-maydis*)☐ Helminthosporium Leaf Spot (*Bipolaris zeicola*)

Race _____

6 Northern Leaf Blight (*Exserohilum turcicum*)

Race _____

Southern Leaf Blight (*Bipolaris maydis*)

Race _____

2 Southern Rust (*Puccinia Polysora*)Stewart's Wilt (*Erwinia stewartii*)☐ Other (Specify) _____

B. Systemic Diseases

Corn Lethal Necrosis (MCMV and MDMV)

9 Head Smut (*Sphacelotheca reiliana*)☐ Maize Chlorotic Dwarf Virus (MCDV)☐ Maize Chlorotic Mottle Virus (MCMV)3 Maize Dwarf Mosaic Virus (MDMV)

Strain _____

☐ Sorghum Downy Mildew of Corn (*Peronosclerospora sorghi*)☐ Other (Specify) _____

C. Stalk Rots

7 Anthracnose Stalk Rot (*Colletotrichum graminicola*)☐ Diplodia Stalk Rot (*Stenocarpella maydis*)☐ Fusarium Stalk Rot (*Fusarium moniliforme*)☐ Gibberella Stalk Rot (*Gibberella zeae*)☐ Other (Specify) _____

D. Ear and Kernel Rots

☐ Aspergillus Ear and Kernel Rot (*Aspergillus flavus*)8 Diplodia Ear Rot (*Stenocarpella maydis*)5 Fusarium Ear and Kernel Rot (*Fusarium moniliforme*)6 Gibberella Ear Rot (*Gibberella zeae*)☐ Other (Specify) _____☐ Anthracnose Leaf Blight4 Common Rust☐ Common Smut

Eyespot

Goss's Wilt

3 Gray Leaf Spot☐ Helminthosporium Leaf Spot

Race _____

3 Northern Leaf Blight

Race _____

Southern Leaf Blight

Race _____

2 Southern Rust

Stewart's Wilt

☐ Other (Specify) _____

Corn Lethal Necrosis

8 Head Smut☐ Maize Chlorotic Dwarf Virus☐ Maize Chlorotic Mottle Virus6 Maize Dwarf Mosaic Virus

Strain _____

☐ Sorghum Downy Mildew of Corn☐ Other (Specify) _____3 Anthracnose Stalk Rot☐ Diplodia Stalk Rot☐ Fusarium Stalk Rot☐ Gibberella Stalk Rot☐ Other (Specify) _____☐ Aspergillus Ear & Kernel Rot1 Diplodia Ear Rot5 Fusarium Ear & Kernel Rot5 Gibberella Ear Rot

Other (Specify) _____

| | | | | | |
|--|----------|-------------|---|----------|-------------|
| 11. INSECT RESISTANCE (Rate from 1(most susceptible) to 9 (most resistant); Leave blank if not tested) | | | | | |
| | St. Dev. | Sample Size | | St. Dev. | Sample Size |
| <input type="checkbox"/> Banks Grass Mite (<i>Oligonychus pratensis</i>) | | | <input type="checkbox"/> Banks Grass Mite | | |
| Corn Earworm (<i>Helicoverpa zea</i>) | | | Corn Earworm | | |
| <input type="checkbox"/> Leaf Feeding | | | <input type="checkbox"/> Leaf Feeding | | |
| <input type="checkbox"/> Silk Feeding _____ mg larval wt. | | | <input type="checkbox"/> Ear Damage | | |
| <input type="checkbox"/> Ear Damage | | | <input type="checkbox"/> Corn Leaf Aphid | | |
| <input type="checkbox"/> Corn Leaf Aphid (<i>Rhopalosiphum maidis</i>) | | | <input type="checkbox"/> Corn Sap Beetle | | |
| <input type="checkbox"/> Corn Sap Beetle (<i>Carpophilus dimidiatus</i>) | | | European Corn Borer | | |
| European Corn Borer (<i>Ostrinia nubilalis</i>) | | | 1 st Generation | | |
| 1 st Generation (Typically Whorl Leaf Feeding) | | | <input type="checkbox"/> 2 nd Generation | | |
| <input type="checkbox"/> 2 nd Generation (Typically Leaf Sheath-Collar Feeding) | | | | | |
| Stalk Tunneling: _____ cm tunneled/plant | | | Fall Armyworm | | |
| Fall Armyworm (<i>Spodoptera frugiperda</i>) | | | <input type="checkbox"/> Leaf-Feeding | | |
| <input type="checkbox"/> Leaf-Feeding | | | <input type="checkbox"/> Silk-Feeding _____ mg larval wt. | | |
| <input type="checkbox"/> Silk-Feeding _____ mg larval wt. | | | <input type="checkbox"/> Maize Weevil | | |
| <input type="checkbox"/> Maize Weevil (<i>Sitophilus zeamais</i>) | | | | | |
| <input type="checkbox"/> Northern Rootworm (<i>Diabrotica barberi</i>) | | | <input type="checkbox"/> Northern Rootworm | | |
| <input type="checkbox"/> Southern Rootworm (<i>Diabrotica undecimpunctata</i>) | | | <input type="checkbox"/> Southern Rootworm | | |
| Southwestern Corn Borer (<i>Diatraea grandiosella</i>) | | | Southwestern Corn Borer | | |
| <input type="checkbox"/> Leaf Feeding | | | <input type="checkbox"/> Leaf Feeding | | |
| Stalk Tunneling: _____ cm tunneled/plant | | | <input type="checkbox"/> Two-spotted Spider Mite | | |
| <input type="checkbox"/> Two-spotted Spider Mite (<i>Tetranychus urticae</i>) | | | <input type="checkbox"/> Western Rootworm | | |
| <input type="checkbox"/> Western Rootworm (<i>Diabrotica virgifera virgifera</i>) | | | <input type="checkbox"/> Other (Specify) _____ | | |
| <input type="checkbox"/> Other (Specify) _____ | | | | | |

12. AGRONOMIC TRAITS:

| | |
|---|--|
| <u>6</u> Stay Green (at 65 days after anthesis) (Rate on scale from 1=worst to 9=excellent) | <u>3</u> Stay Green |
| % Dropped Ears (at 65 days after anthesis) | % Dropped ears |
| <input type="checkbox"/> % Pre-anthesis Brittle Snapping | <input type="checkbox"/> % Pre-anthesis Brittle Snapping |
| <u>30</u> % Pre-anthesis Root Lodging | <u>35</u> % Pre-anthesis Root Lodging |
| <u>28</u> % Post-anthesis Root Lodging (at 65 days after anthesis) | <u>28</u> Post-anthesis Root Lodging |
| <u>7,251.0</u> Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture) | <u>4,087.0</u> Yield |

13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied.)

| | | | |
|-------------------|---------------------------------|---------------------------------|--|
| <u>1</u> Isozymes | <input type="checkbox"/> RFLP's | <input type="checkbox"/> RAPD's | <input type="checkbox"/> Other (Specify) _____ |
|-------------------|---------------------------------|---------------------------------|--|

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- Stringfield, G.H. Maize Inbred Lines of Ohio A.E.S., Bul. 831. 1959.
- U.S. Department of Agriculture 1936, 1937. Yearbook.

COMMENTS (e. g. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D)

Insect, disease, brittle snapping and root lodging data are collected mainly from environment where variability for the trait can be obtained within the experiment.

Our experimental design was set up in a typical complete block design commonly used in agricultural corn research experiments using three locations/environments. One replication was grown at each location. This is one more environment than is required according to the PVP application instructions. Our approach was to test the variety in more than 1 location (as instructed) while also allowing us the extra location/environment if there should be an unexpected failure at a location due to weather or other problems. There may also be situations where an additional year of testing was conducted resulting in 2 years of trial data. There would likely be more variability due to soil type differences, nutrients, or weather typical of different testing environments than if all three trials were grown in the same field on the same farm with the same planting dates in the same year. If you recommend that all locations/environments are grown in the same field with the same planting dates and same year, please let us know and we will adjust our 2007 procedures.

The experimental design and methods for 2003 were as follows:

Please update the exhibit C addendum with this paragraph:

The experiment procedures involved three environments with different planting dates, planted in 17.42 ft. rows with 2 rows for each variety. Approximately 24-30 plants emerged in each of 2 rows for a total of around 48 to 60 plants being evaluated at each location and 144 to 180 plants across locations. For plant level traits, we sampled 5 representative plants from the 2 rows of the 2 row plot (group) of plants at each location. For plot level traits we evaluated the 2 row plot (group) and gave a representative score or average on the 48-60 plants in the group within an experiment.

Some traits can be especially variable under different environmental factors influenced by weather, soil type, or planting dates. Varying temperatures or day length could impact the meristem growth during various tissue differentiation stages. The meristem differentiation of the ear and other tissues could be impacted as well as the success of pollination during flowering and frequency of kernel abortion during grain fill. Such variation could impact some of the traits that you mention because our experiment design does not grow all of the trials in the same field with the same planting date.

I would be happy to share detailed protocols or discuss with you in more detail the sampling, experiment design, reporting, and the conscientious evaluations that went into the characterization of the data..

Please note the data presented in Exhibit B and C, "Objective Description of Variety," are collected primarily at Johnston and Dallas Center, Iowa. The data in Tables 1A and 1B are from two sample t-tests using data collected in Johnston and Dallas Center, IA. These traits in exhibit B collectively show distinct differences between the two varieties.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

| | | |
|--|---|---|
| 1. NAME OF APPLICANT(S) PIONEER HI-BRED INTERNATIONAL, INC. | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER | 3. VARIETY NAME PHB1V |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 7301 NW 62nd AVENUE P.O. BOX 85 JOHNSTON, IA 50131-0085 | 5. TELEPHONE (include area code) 515-270-4051 7. PVPO NUMBER 2004 00 201 | 6. FAX (include area code) 515-253-2125 |

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain: ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO if no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☒ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Pioneer Hi-Bred International, Inc. (PHI), Des Moines, Iowa, and/or its wholly owned subsidiary Pioneer Overseas Corporation (POC), Des Moines, Iowa, is the employer of the plant breeders involved in the selection and development of PHB1V. Pioneer Hi-Bred International and/or Pioneer Overseas Corporation has the sole rights and ownership of PHB1V pursuant to written contracts that assign all rights in the variety to PHI and/or POC at the time such variety was created. No rights to this variety are retained by any individuals.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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